

Name _____ Date _____

Adopt a City – Task #7 Winter Weather

Directions:

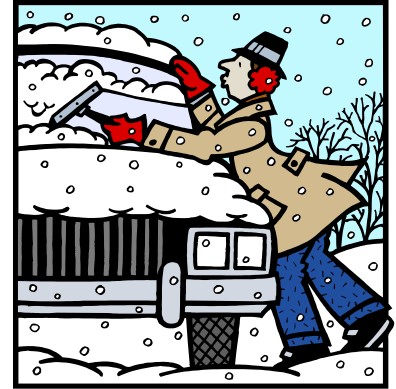
Use this link to collect your weather data:

<http://teacher.scholastic.com/activities/wwatch/winter/blizzard/index.htm>

Even as you control the weather, there are still two rules you have to follow:

- The temperature towards the poles (either north or south) must always be less than the temperature towards the equator.
- The maximum difference in the two temperatures is 70 degrees.

Other than that, you can make whatever kind of day you like just by moving the humidity slider and either of the two temperature sliders.



Make 10 different scenarios, there are at least 15 possible! Good luck!

| Equatorward Temp °F | Poleward Temp °F | Relative Humidity % | Conditions: Wind, Cloud Cover, and Precipitation |
|------------------------|---------------------|---------------------------|--|
| 30 | 30 | 70 | Little Wind, Partly Cloudy, No Rain or Snow |
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|------------------------|---------------------|---------------------------|--|
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Analysis – Using the data that you collected, answer these questions in complete sentences. Be sure to **include** these words in your answers; **air mass, temperature, humidity, wind, energy, cloud, hot, warm, cold, sunshine, rain, and snow** when appropriate.

1. What conditions are responsible for a clear sunny day?

2. What conditions are responsible for light rain?

3. What conditions are responsible for a severe rainstorm?

4. What conditions are responsible for light snow?

5. What conditions are responsible for heavy snow?

Create 3 true statements using the information that you learned today:

Example: The larger the temperature difference between two air masses, the stronger the wind.

6. _____

7. _____

8. _____
